PCT

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International Application No.
International Filing Date
International Timing Date
Name of receiving Office and "PCT International Application"

REQUEST	International Filing Date
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"
	Applicant's or agent's file reference (if desired) (12 characters maximum) WPP86447
BOX NO. I TITLE OF INVENTION SEQUENCES FROM AN ENDOSYMBIONT AN	ID THEIR USES
Box No. II APPLICANT This perso	n is also inventor
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this
Pharma Mar, S.A.U.	Facsimile No.
Polígono Industrial La Mina Avda. de los Reyes, 1	Teleprinter No.
Colmenar Viejo Madrid, E-28770, Spain	Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:
This person is applicant for the purposes of: all designated states all designated the United States	d States except the United States the States indicated in States of America of America only the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residence Pérez Esteban, Beatriz Polígono Industrial La Mina Avda. de los Reyes, 1 Colmenar Viejo Madrid, 28770, Spain	the address indicated in this 1 ms person is.
State (that is, country) of nationality: ES	State (that is, country) of residence:
This person is applicant for the purposes of: all designated the United States all designated the United States	the United States except States of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated	on a continuation sheet.
Box No. IV AGENT OR COMMON REPRESENTATIVE	; OR ADDRESS FOR CORRESPONDENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of c	ity, full official designation. Telephone No. 020 7400 3000
Ruffles, Graham Keith Marks & Clerk	Facsimile No. 020 7404 4910
57-60 Lincoln's Inn Fields London WC2A 3LS	Teleprinter No.
United Kingdom	Agent's registration No. with the Office
Address for correspondence: Mark this check has where	no agent or common representative is/has been appointed and the
space above is used instead to indicate a special address to	which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not	be included in the rec	quest.			
Name and address: (Family name followed by given name; for a legal entip The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is: applicant only			
Aparicio Pérez, Tomás		applicant and inventor			
Polígono Industrial La Mina		inventor only (If this check-box			
Avda. de los Reyes, 1 Colmenar Viejo		is marked, do not fill in below.)			
Madrid, 28770, Spain		Applicant's registration No. with the Office			
State (that is, country) of nationality: ES	State (that is, country, ES) of residence:			
This person is applicant for the purposes of: all designated the United States all designated the United States		the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the		This person is:			
Box is the applicant's State (that is, country) of residence if no State of residence	e is indicated below.)	applicant only			
Velasco Iglesias, Ana		applicant and inventor			
Polígono Industrial La Mina Avda. de los Reyes, 1		inventor only (If this check-box is marked, do not fill in below.)			
Colmenar Viejo					
Madrid, 28770, Spain		Applicant's registration No. with the Office			
State (that is, country) of nationality: ES	State (that is, country) ES) of residence:			
This person is applicant all designated for the purposes of:		the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is:			
Henrìquez Peláez, Rubén		applicant and inventor			
Polígono Industrial La Mina		inventor only (If this check-box			
Avda. de los Reyes, 1		is marked, do not fill in below.)			
Colmenar Viejo Madrid, 28770, Spain		Applicant's registration No. with the Office			
State (that is, country) of nationality: ES	State (that is, country) ES	of residence:			
This person is applicant all designated for the purposes of: all designated the United States the United States		the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence Muñoz Moreno, Rosario Instituto de Fermentaciones Industriales CSI	e address indicated in this is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box			
Calle Juan de la Cierva 3		is marked, do not fill in below.)			
Madrid, 28006 Spain		Applicant's registration No. with the Office			
State (that is, country) of nationality: ES	State (that is, country) ES	of residence:			
This person is applicant all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated or	another continuation	sheet.			

Sheet	NT-		વ	
Sneet	NO.		.Y.	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is: applicant only			
Moss, Claire Integrin Advanced Biosystems Ltd Marine Resource Centre Barcaldine		applicant and inventor inventor only (If this check-box is marked, do not fill in below.)			
Oban, Argyll, Scotland, PA37 1SH, United Kingdom	Ā	Applicant's registration No. with the Office			
State (that is, country) of nationality: GB	State (that is, country) of GB	of residence:			
This person is applicant all designated all designated for the purposes of:		the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name: for a legal entithe address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence. McKenzie, Douglas	e address indicated in this	This person is: applicant only applicant and inventor			
Integrin Advanced Biosystems Ltd Marine Resource Centre,Barcaldine		inventor only (If this check-box is marked, do not fill in below.)			
Oban, Argyll, Scotland, PA37 1SH, United Kingdom	7	Applicant's registration No. with the Office			
State (that is, country) of nationality: GB	State (that is, country) of GB	of residence:			
This person is applicant for the purposes of: all designated the United States all designated the United St	States except ates of America th	the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residenc	e address indicated in this e is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country) o	of residence:			
This person is applicant all designated for the purposes of:		e United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this e is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country) of	f residence:			
		e United States the States indicated in America only the Supplemental Box			
Further applicants and/or (further) inventors are indicated o	n another continuation sh	eet.			

Box No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line).
- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT

of protection or treatment desire	ed, specify on dotted line)	•••••••••••••••••••••••••••••••••••••••
•	ion or treatment desired, specify on dotted line):	
	🖾 HR Croatia	
	HU Hungary	
AL Albania		PH Philippines
	IL Israel	PI. Poland
	. 🖸 IN India	
AU Australia		RO Romania
	. 🖸 JP Japan	•
	KE Kenya	
BB Barbados	KG Kyrgyzstan	SC Seychelles
	. KP Democratic People's Republic	
BR Brazil		
	. KR Republic of Korea	
	KZ Kazakhstan	
K CA Canada	LC Saint Lucia	SL Sierra Leone
CH & LI Switzerland and Liechtenstein		
CN China		SY Syrian Arab Republic
	LS Lesotho	TJ Tajikistan
CR Costa Rica		TN Tunisia
CU Cuba		
		TR Turkey
CZ Czech Republic		TT Trinidad and Tobago
	MA Morocco	
l <u>—</u>	. 风 MD Republic of Moldova	
M DM Dominica		UA Ukraine
DZ Algeria	MG Madagascar	KI UG Uganda
	MK The former Yugoslav Republic of	
EE Estonia		
ES Spain		UZ Uzbekistan
FI Finland	MWMalawi	
GB United Kingdom	MX Mexico	
GD Grenada	MZ Mozambique	YU Serbia and Montenegro
GE Georgia	NI Nicaragua	ZA South Africa
GH Ghana	NO Norway	ZM Zambia
M GM Gambia	NZ New Zealand	ZW Zimbabwe
	States which have become party to the PCT a	
		⊔

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

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Box No. VI PRIORITY	CLAIM				
The priority of the following	g earlier application(s) is herel	by claimed:			
Filing date	Number	7	Where earlier application	is:	
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	national application: country or Member of WTO regional application:* regional Office		
item (I) 13 August 2002 (13.08.02)	0218813.4	GB			
item (2)					
item (3)					
item (4)	· · · · · · · · · · · · · · · · · · ·			1	
item (5)					
Further priority claims	are indicated in the Supplement	ental Box.			
	uested to prepare and transmit is filed with the Office which for				
all items item	(I) item (2)	item (3) item	1 (4) item (5)	other, see Supplemental Box	
Industrial Property or one M	tion is an ARIPO application, in Member of the World Trade Or	rganization for which that e	earlier application was fil	led (Rule 4.10(b)(ii)):	
			• • • • • • • • • • • • • • • • • • • •		
Box No. VII INTERNA	TIONAL SEARCHING AUT	THORITY			
Choice of International Se international search, indicat	earching Authority (ISA) (if the the Authority chosen; the two	two or more International S 5-letter code may be used):	Searching Authorities are	competent to carry out the	
ISA /				• • • • • • • • • • • • • • • • • • • •	
Request to use results of e International Searching Auti	earlier search; reference to t	that search (if an earlier se	earch has been carried or	ut by or requested from the	
Date (day/month/year)		per Cour	ntry (or regional Office)		
Box No. VIII DECLARA	TIONS		· · · · · · · · · · · · · · · · · · ·		
	s are contained in Boxes Nos. cate in the right column the nun			Number of declarations	
Box No. VIII (i)	Declaration as to the identit	ty of the inventor		:	
Box No. VIII (ii)	Declaration as to the applicate, to apply for and be gr		ne international filing	:	
Box No. VIII (iii)	Declaration as to the appli date, to claim the priority			:	
Box No. VIII (iv)	Declaration of inventorship United States of America)		f the designation of the	:	
Box No. VIII (v)	Declaration as to non-preju	udicial disclosures or exce	ptions to lack of novelty	:	

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Sheet 1	Va.		v	

Box No. IX CHECK LIST; LANGUAGE OF FILING					
This international application contains: (a) the following number of sheets in paper form: request (including declaration sheets)	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item): 1. fee calculation sheet 2. original separate power of attorney 3. original general power of attorney 4. copy of general power of attorney; reference number, if any: 5. statement explaining lack of signature 6. priority document(s) identified in Box No. VI as item(s): 7. translation of international application into (language): 8. separate indications concerning deposited microorganism or other biological material 9. sequence listing in computer readable form (indicate also and number of carriers (diskette, CD-ROM, CD-R or othe (i) copy submitted for the purposes of international sunder Rule 13ter only (and not as part of the international application) (ii) (only where check-box (b)(i) or (b)(ii) is marked in column) additional copies including, where application the copy for the purposes of international search under 13ter (iii) together with relevant statement as to the identity of the copy or copies with the sequence listing par mentioned in left column 10. the (specify): Form 23/77. Language of filing of the international application: English T. AGENT OR COMMON REPRESENTATIVE ming and the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity is not obvious from the capacity in which the person signs (if such capacity i	type type type type type carch cable, nder t			
	For receiving Office use only				
Date of actual receipt of the purported international application:		. Drawings:			
 Corrected date of actual receipt due to later timely received papers or drawings complet the purported international application: 					
4. Date of timely receipt of the required corrections under PCT Article 11(2):		not received:			
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid				
	For International Bureau use only				
Date of receipt of the record copy by the International Bureau:					

This sheet is not part of and does not count as a sheet of the international application.

For receiving Office use only FEE CALCULATION SHEET International Application No. Annex to the Request Applicant's or agent's WPP86447 file reference Date stamp of the receiving Office Applicant Pharma Mar, S.A.U. et al CALCULATION OF PRESCRIBED FEES 55.00 T 1. TRANSMITTAL FEE 640.00 s International search to be carried out by (If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.) 3. INTERNATIONAL FEE **Basic Fee** Where item (b) of Box No. IX applies, enter Sub-total number of sheets Where item (b) of Box No. IX does not apply, enter Total number of sheets 278 b ь2 number of sheets fee per sheet in excess of 30 additional component (only if sequence listing part of description is filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)): 400 x _____fee per sheet 362 B Add amounts entered at b1, b2 and b3 and enter total at B. **Designation Fees** The international application contains All designations. 300 D number of designation fees amount of designation fee payable (maximum 5) 692 I Add amounts entered at B and D and enter total at I (Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.) 22 P 4. FEE FOR PRIORITY DOCUMENT (if applicable) . . 1409.00 5. TOTAL FEES PAYABLE TOTAL Add amounts entered at T, S, I and P, and enter total in the TOTAL box The designation fees are not paid at this time. MODE OF PAYMENT authorization to charge deposit account (see below) postal money order Cash coupons bank draft revenue stamps under (specify): AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT Receiving Office: RO/ GB (This mode of payment may not be available at all receiving Offices) Deposit Account No.: D03312 Authorization to charge the total fees indicated above. Date: 13 August 2003 (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency

or credit any overpayment in the total fees indicated above.

Name: S. Fowell

Signature: